M712 COPPERHEAD MET + VE WORK SHEET

For use of this form, see FM 6-40. The proponent agency is TRADOC.

NOTE: Use FT 155-AS-1

STEP	ACTION	VALUE
1	Record the Chart Rg to Tgt	
2	Record the Chart Df to Tgt	
3	Record Obsr Visibility	
4	Record Obsr Cld Ht	
5	Record Tgt Altitude	
6	Record Obsr Altitude	
7	Compute OT VI [5] - [6]	
8	Compute Tgt Cld Ht [4] - [7]	
9	Enter Chg, Visibility, Cld Ceiling Tbl With [1], [3], [8]; Extract Change and Mode	
10	Record Tgt Altitude [5]	
11	Record Btry Altitude	
12	Compute VI [10] - [11]	
13	Compute ∢ Si (GST) [12], [1]	
14	Enter Tbl F with [1]; Record El From Col 3	
15	Compute Trial QE VI [13] + [14]	
16	Enter Tbl A with [15]; Record Met Message Line Number	
17	Record Wind Dir	
18	Record Wind Speed	
19	Record Air Temp	
20	Record Air Density	
21	Record Common Df	
22	Record Chart Df [2]	
23	Compute Difference [21] - [22] (+/-)	
24	Record AOL	
25	Compute Dir of Fire [23]+[24] (1 mil)	

STEP	ACTION	VALUE
26	Record Dir of Fire [25](100)	
27	Record 6400 (If [26]>6400)	
28	Compute Dir of Fire [26] - [27]	
29	Record Wind Direction [17]	
30	Record 6400 (If [29]<[28])	
31	Compute Wind Direction [29]+[30]	
32	Record Dir of Fire [28](100)	
33	Compute Chart Dir Wind [31] - [32]	
34	Enter Tbl C With [33]; Record the Range Wind Component	
35	Record Wind Speed [18]	
36	Compute Rg Wind [34]X[35] (1 knot)	
37	Enter Tbl C With [33]; Record the Crosswind Component	
38	Record Wind Speed [18]	
39	Compute Crosswind [37]X[38] (1 knot)	
40	Enter Tbl F With [1]; Record the Crosswind Correction	
41	Compute Tot Df Corr [39]X[40] (1 mil)	
42	Record Chart Df [2]	
43	Compute Df to Fire [41]+[42]	
44	Record Btry Altitude [11] (10 meters)	
45	Record MDP Altitude From Met Msg	
46	Compute Δh [44] - [45]	
47	Enter Tbl D With [46]; Record the Temp Correction	
48	Record Air Temp [19]	
49	Compute Corr Air Temp [47]+[48]	
	DTG	Tgt Number

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STEP	ACTION	VALUE
50	Enter Tbl D With [46]; Record the Density Corr	
51	Record Air Density [20]	
52	Compute Corr Air Density [50]+[51]	
53	Record Propellant Temp	
54	Enter Tbl E With [53]; Record the Change in MV (0.1 m/s)	
55	Record MVV; Go to [62]; If Unknown, Enter 0; Go to [56]	
56	Record Pullover Gauge Reading	
57	Enter Approx Loss in MV Tbl With [56], EFCs Equal to [56]	
58	Record the Erosion EFCs Since Last Pullover Gauge Reading	
59	Compute Total EFCs [57]+[58]	
60	Enter Approx Loss in MV Tbl With [59]; Record Loss in MV	
61	Record Propellant Efficiency	
62	Compute ΔV [54]+[55] or +[60]+61] (I/D) if no entry available	
63	Enter Tbl F With [1]; Record the MV Unit Correction	
64	Compute ΔV Rg Corr [62]X[63]	
65	Record Range Wind [36]	
66	Enter Tbl F With [1]; Record the Rg Wind Correction	
67	Compute Rg Wind Corr [65]X[66] (0.1)	
68	Record Corr Air Temp [49]	
69	Enter 100	
70	Compute Variation From Std [68] - [69]	
71	Enter Tbl F With [1]; Record the Air Temp Rg Unit Corr	
72	Compute Air Temp Rg Corr [70]X[71] (0.1 meter)	

STEP	ACTION	VALUE
73	Compute Corr Air Density [52]	
74	Enter 100	
75	Compute Variation From Std [73] - [74]	
76	Enter Tbl F With [1]; Record the Density	
77	Compute Density Rg Corr [75]X[76] (0.1)	
78	Record ΔV Rg Corr [64]	
79	Compute Rg Wind Corr [67]	
80	Record Air Temp Corr [72]	
81	Compute Tot Rg Corr [77]+[78]+[79]+[80] (10 meters)	
82	Record Chart Rg [1]	
83	Compute Corr Rg [81]+[82]	
84	Enter Tbl F With [83]; Interpolate the El From Col 3 (1 mil)	
85	Record ∢ Si [13]	
86	Enter Tbl G With [82]; Record the CSF for 1 mil Angle of Site	
87	Compute CAS [85]X[86] Same Sign as [86] (0.1 mil)	
88	Record ∢ Si [85]	
89	Compute Si [87]+[88]	%
90	Record El [84] (1 mil)	
91	Compute QE to Fire [89]+[90]	
92	Enter Tbl F With [83]; Record the Time Setting	
93	Record Switch Setting [92] Followed by Obsr PRF Code	
94	Enter Tbl F With [83]; Record the Designate Time	
	Firing Data Chg [9]_____Switch Setting [93]_____ Df [43]_____QE [91] _____	